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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/528,456	528,456 03/17/2000 Martin Kienzle		YOR000028US1	4380
46069	7590 . 07/26/2005	EXAMINER		
F. CHAU & ASSOCIATES, LLC 130 WOODBURY ROAD			ARANI, TAGHI T	
	Y, NY 11797		ART UNIT	PAPER NUMBER
			2131	
			DATE MAILED: 07/26/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u></u>	· · · · · · · · · · · · · · · · · · ·	Applicat	ion No	Applicant(s)			
Office Action Summary							
		09/528,4	l56	KIENZLE ET AL.			
		Examine	r	Art Unit			
		Taghi T.		2131			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status			·				
1)⊠ Respo	nsive to communication(s) file	ed on <i>26 Mav 2005</i> .					
·=:	This action is FINAL . 2b) \boxtimes This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of C	Claims						
 4) Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,6-10,12-16,18-22,24-28 and 30-34 is/are rejected. 7) Claim(s) 5,11,17,23 and 29 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Pap	pers						
9)∐ The spe	ecification is objected to by th	ne Examiner.					
10)☐ The dra	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 3	5 U.S.C. & 119	•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of Refe 2) Notice of Draft 3) Information Di	erences Cited (PTO-892) tsperson's Patent Drawing Review (I sclosure Statement(s) (PTO-1449 of fail Date <u>5/2 & 2005</u> .		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Claims 1-34 are pending in this Office Action.

Response to Arguments

Applicant's arguments filed 5/26/2005, with respect to the rejection(s) of claim(s) 1-34 under USC 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in this Office action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-10, 12-16, 18-22, 24-28, and 30-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over prior art of record, REITMEIER et al. to US 2002/0003881 in view of U.S. Pat. No. 6,011,849 to Orrin.

Referring to claims 1 and 20, REITMEIER et al. teach a system and method comprising a server [Page 1, paragraph 0017, Fig.1, information provider equipment, 105-140] coupled to a transmission link [Figure 1, distribution channels, 145A and 145B] for providing a data stream to at least one client [see Figure 5, subscriber equipment, 150-175] over the transmission link [Figure 1, distribution channels, 145A and 145B], the data stream being segmented into units [page 2, paragraph 0023, Fig 1, segmentation module 110], the server including a scrambler [Fig. 1, information stream encryption module, 135] for encrypting at least

one first unit using an encryption key [page 3, paragraph 0031].

REITMEIER et al. do not teach but Orrin teaches a system and a method of a server comprising a steganographic unit for embedding the encryption key into at least one second unit for the data stream such that steganographic information is needed by the client to determine the encryption key and decipher the data stream (Orrin, col. 4, lines 45-63, see also Figs. 3 and 4 and the related text, where an encryption key is used as both a key and as a data to be encrypted. The key is modified (selection ciphertext) and is steganographically encoded in every byte or every nth byte of the data stream.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify REITMEIER et al. to include the steganographic teachings of Orrin.

Namely, inserting a steganographic unit in the "information provider equipment" 105-140 of Figure 1[see REITMEIER et al.]. One of ordinary skill in the art would have been motivated to modify REITMEIER et al. as above for the purpose of improving the security of the encrypted data to be transmitted over an unsecured communication line (Orrin, col. 3, lines 18-24).

Referring to claim 2, REITMEIER et al. as modified teach a steganographic unit employing a steganographic masking algorithm [Orrin, col. 47-49].

Referring to claims 3 and 21, REITMEIER et al. teach the system as recited in claims 1 and 20, wherein the data stream includes a transmission order which alternates between first units and second units [REITMEIER et al., page 3, paragraph 0034].

Referring to claim 4, REITMEIER et al. as modified teach steganographic unit encrypts the at least one second unit [Orrin, col. 5, lines 30-45].

Referring to claims 6 and 24, REITMEIER et al. teach a transmission link

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including the Internet [page 3, paragraph 0033].

Referring to claims 7 and 25, REITMEIER et al. teach at least one of the client and the server include a memory storage device [page 3, paragraph 0035].

Referring to claims 8, 14, 26, and 34, REITMEIER et al. teach a system and method comprising a client system coupled to a transmission link for receiving a data stream to at least one server over the transmission link, the data stream being segmented into units, the client system including a descrambler for descrambling at least one second unit which was encrypted in accordance with the encryption key before transmission from the server [col. 3, paragraphs 0035-0036, see also Fig. 1].

REITMEIER et al. do not teach but Orrin teaches a system and a method of a client comprising:

a key extractor for extracting an encryption key steganographically hidden in at least one first unit in the data stream received from the server such that steganographic information is needed by the client to determine the encryption key [Orrin, col. 9, lines 14-16, key management is used to retrieve (extract) the relevant key(s)]; and

A decoder coupled to the key extractor and the descrambler for reassembling the data stream such that all of the units of the data stream are needed to decipher the data stream [Orrin, col. 9, lines 13-19, see also lines 34-42].

Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify REITMEIER et al. to include the key extractor and the decoder of Orrin. Namely, inserting the key extractor and the decoder in the "subscriber side equipment" of Figure 1 [REITMEIER et al., page 3, paragraph 0035]. One of ordinary skill in the art would

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have been motivated to modify REITMEIER et al. as above for the purpose of providing a higher level of security to encrypted data being transmitted over an unsecure transmission line (Orrin, col. 3, lines 18-24).

Referring to claims 9, 15 and 27, REITMEIER et al. teach the system as recited in claims 8, 14 and 26, wherein the data stream includes a transmission order which alternates between first units and second units [page 3, paragraph 0034].

Referring to claim 10, REITMEIER et al. as modified teach hiding the encryption key is also steganographically hidden in the at least one second unit [Orin, col. 4, lines 53--59].

Referring to claims 12, 18 and 30, REITMEIER et al. teach a transmission link including the Internet [page 3, paragraph 0033].

Referring to claims 13, 19 and 31, REITMEIER et al. teach at least one of the client and the server include a memory storage device [page 3, paragraph 0035].

Referring to claims 16, 22, and 28, REITMEIER et al. as modified teach the step of steganographically embedding portions of the encryption key in the at least one first unit [Orin, col. 4, lines 53-59].

In regards to claims 32 and 33, the claim limitations recite a storage medium having instructions to execute the method of claims 1 and 14, therefore the same rejection applies.

Allowable Subject Matter

Claims 5, 11, 17, 23 and 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taghi T. Arani whose telephone number is (571) 272-3787. The examiner can normally be reached on 8:00-5:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Taghi T. Arani, Ph.D.

Examiner Art Unit 2131 7/21/205